

## Product datasheet for **MR210164**

### **Pcif1 (NM\_146129) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pcif1 (NM_146129) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcif1
Synonyms:	2310022K11Rik; C20orf67; F730014I05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210164 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAATGAGAATCACGGCAGCCCCGGGAAGGAGCCTCCCTTCTAAGTCACTCTCCAGGCACCTCCA  
 GTCAGAGCCAGCCCTGTTCTCCAAGCCAGTTCGCCTGGTACAGGACCTCCAGAGGAGCTGGTACATGC  
 AGGCTGGGAGAAGTGCTGGAGCCGGAGGAGAGCCGTCCTACTACTTCAACCGATTACCAACCCAGTCT  
 CTGTGGGAGATGCCCGTCTGGGTGAGCAGCAGCTGCTTTCGGACCCCTCTGGGGTGAATGCAACCCAC  
 TGCCCCAAGACTCAAGCTTGGTGGAAACGCCCCAGTAGAGAACAAGTCCAGAAAGCGACAGCTCTCAGA  
 GGAGCAGCAAGTGGCAACGGAGTGAAGAAGCCCAAGATTGAAATCCCTGTGACACCCACAAGCCAGTCA  
 GTGCCAGTTCCTTAGCATCCCAGGAACCCCAACTGAAGATTGGGGTTCATCCACTGAAGATAAAC  
 AGGCAGCTCTCCTCCGACCCACTGAGGTGACTGGACCTGGACATCCAGACCAATGCTGTCATCAAGCA  
 CAGGGGTCTTCAGAGGTCTGCCTCCACCCCTGATGTTGAGTTGCTCCGCTCGCAGCTCATCTTGAAG  
 CTCGCGCAGCACTACCGGAACTGTGCCAGCAGCGGGAGGGCATTGAGCCGCCCGGGAATCTTTCAACC  
 GCTGGATGCTGGAGCGCAAAGTGGTGGCAAAGGATGTGATCCTCTGTTGCCAAGCAACTGTGAACCACT  
 TGTGTCTCCATCCATGTTTCGTGAAATTAATGAATGACATTCCTCAGGTTATCCCGAATCAAGTCCGG  
 GAGGAAGCCAAACGCCTGCTCTTTAAATACGCAGAAGCTGCCAGGCGGCTCATTGAGTCCAGGAGTGCAT  
 CCCCTGACAGCAGAAAAGTGGTCAAATGGAACGTGGAGGACACCTTCAGCTGGTGCAGGAAAGAGCACTC  
 GGCCTCCAAGGAGATTACATGGACCGCTGGAGCACCTTCGGAGGCAGTGTGGGCCCATGTCTCTGCT  
 GCAGCCAAAGACTCTGTGGAAGGCATCTGCAGCAAGATCTACCACATCTCCCTGGAATATGTTAAACGGA  
 TCCGAGAAAAGCACCTTGCTGTCTCAAGGAAAACAACATCCAGAGGAAGTGGAGGCCTCAGAGTTGGA  
 GCCCGCCTGGTGTACTGCTACCCAGTGGCTCTGGCCGTGTCGACCCCATGCCTAGTGTGGAGATG  
 CACGTGGAGAACAGTGTGGTCTGCATCCCTATAAGGGGGAGATGGTCAAGGTCAGCCGAGCTACTTCA  
 GCAAACCTGAGCTCCTTACCGCTATAGCTGTGTGGATGACTCTGCCTTTGAGAGTTTCTGCCTCGAGT  
 CTGGTGTCTTCTCCGCCGATATCAGATGATGTTTGGCGTGGCCTCTATGAGGGGACTGGCTGCAGGGG  
 TCACTGCCAGTGCATGTCTTTGAGACCTCCACCGACTCTTTGGTGTGAGTTTCGAGTGTTCGCCTCCC  
 CCCTCAACTGCTACTTCCGCCAGTACTGTTCTGCCTTCCCTGACACAGATGGCTACTTTGGCTCCCGAGG  
 GCCCTGCCTGGACTTACCCCGCTGAGTGGTTCCTTTGAGGCCAACCTCCGTTCTGCGAGGAGCTCATG  
 GATGCTATGGTCTCTCACTTCGAGAACTGCTGGAGAGCTCAGCAGAACCCTGTCTTTCATCGTGTTC  
 TCCCGGAGTGGCGGGAGCCCCACACCAGCGCTCACCAGGATGGAGCAGAGCCGTTCAAACGCCACCA  
 GCTGGTCTTGCCTTTCGAGCAGAGTACCGCAGTGGCTCCCAGCACATCTGCAAGAAGGAGGAAATG  
 CACTACAAGGCCGTCACAACACGGCAGTGTCTTCTGCAGAATGGCCCCGGGTTTCGCAAGTGGGGGC  
 CGACGCCAGAGCGGCTGCAGGAGCTCACCGCTGCCTATAAGCAGTCGGGCCGAGCCATGGCTCCAGCTC  
 TTCTTCTCCTCTTCTCCTCCTCCTCCGAGGCCAAGGACCGGGACTCAGGCCGGGAACAGGGCCCTAGT  
 AGAGAGCCTCACCCACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210164 protein sequence  
 Red=Cloning site Green=Tags(s)

MANENHGSPREGASLLSHSPGTSSSQPCSPKPVRLVQDLPEELVHAGWEKCWSRRESRPYYFNRFNQS  
 LWEMPVLGQHDVLSDDLGLNATPLPQDSSLVETPPVENKSRKRQLSEEQPSGNGVKKPKIEIPVTPTSQS  
 VPSSPSIPGTPTLKIWGSSTEDKQAALLRPTEVYWDLDIQTNAVIKHRGPSEVLPPHPDVLLRSQILK  
 LRQHYRELCQQREGIEPPRESFNWMLERKVVDKGCDDLPSNCEPVVSPSMFREIMNDIPIRLSRIKFR  
 EEAKRLLFKYAEARRLIESRSASPDSRKVVKWNVEDTFSWLRKEHSASKEDYMDRLEHLRRQCGPHVSA  
 AAKDSVEGICSKYHISLEYVKRIREKHLAVLKENNIPEEVEASELEPRLVYCYPVRLAVSAPPMPVEM  
 HVENSVVICIRYKEMVKVRSYF SKLWLLYRYSVDDSAFERFLPRVWCLLRRYQMMFGVGLYEGTGLQG  
 SLPVHVFEHLHRLFGVSFEFCASPLNCYFRQYCSAFPDTDGYFGSRGPCLDFTPLSGSFEANPPFCEELM  
 DAMVSHFEKLLLESSAEPLSFIVFIPREWEPPTPALTRMEQSRFKRHLVLPAFEHEYRSGSQHICKKEEM  
 HYKAVHNTAVLFLQNGPGFAKWGPTPERLQELTAAKQSGRSHGSSSSSSSSSSSSSEAKDRDSGREQGPS  
 REPHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_146129

**ORF Size:** 2121 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_146129.3](#)

**RefSeq Size:** 2752 bp

**RefSeq ORF:** 2121 bp

**Locus ID:** 228866

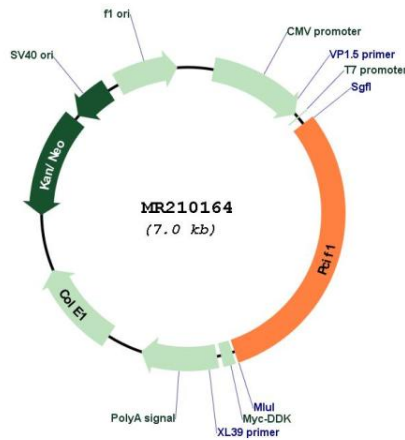
**UniProt ID:** [P59114](#)

**Cytogenetics:** 2 H3

**MW:** 80.5 kDa

**Gene Summary:** Cap-specific adenosine methyltransferase that catalyzes formation of N(6),2'-O-dimethyladenosine cap (m6A(m)) by methylating the adenosine at the second transcribed position of capped mRNAs. Recruited to the early elongation complex of RNA polymerase II (RNAPII) via interaction with POLR2A and mediates formation of m6A(m) co-transcriptionally. N6-methylation of m6A(m) promotes the translation of capped mRNAs.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210164